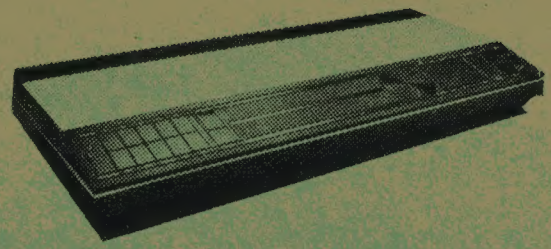
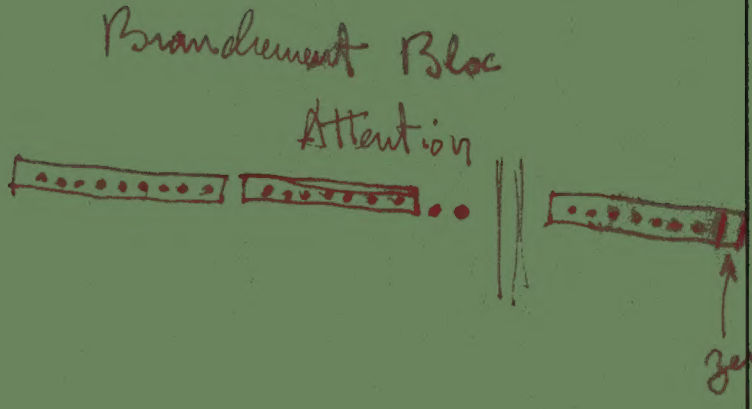
Bang&Olufsen



BEOCENTER 4000

TYPE 1603



MANUEL d'ENTRETIEN

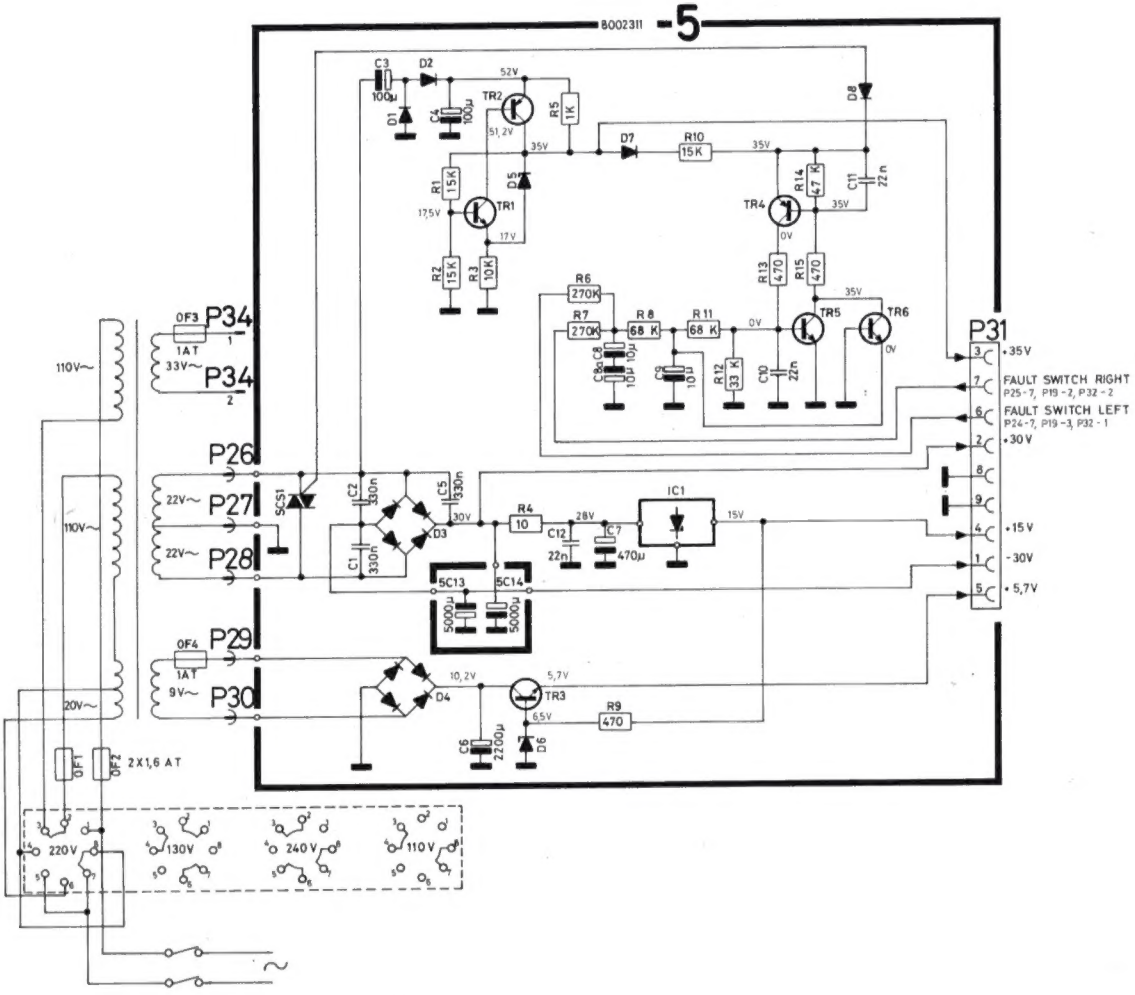
Erklärung zu den Schaltbildern

Alle Steckerverbindungen sind mit einer Steckernummer und einer Anzahl Stiftnummern, z. B. P3, Stiftnummern von 1 bis 3, versehen. Ferner ist angeführt, zu welchen Stift oder Stiften die Verbindung hingeht, z. B. MUTING SWITCH P4 - 3, P24 - 3 und P25 - 3, und dies bedeutet, das Verbindung an insgesamt drei anderen Steckern besteht.
Speisespannungen, die an eine größere Anzahl Stecker angeschlossen ist, werden bloß mit beispielsweise + 35 V SUPPLY bezeichnet.

Buchse auf der Leiterplatte oder kurze Leitungen, die an Steckerstifte auf der Bodenplatte angeschlossen werden.

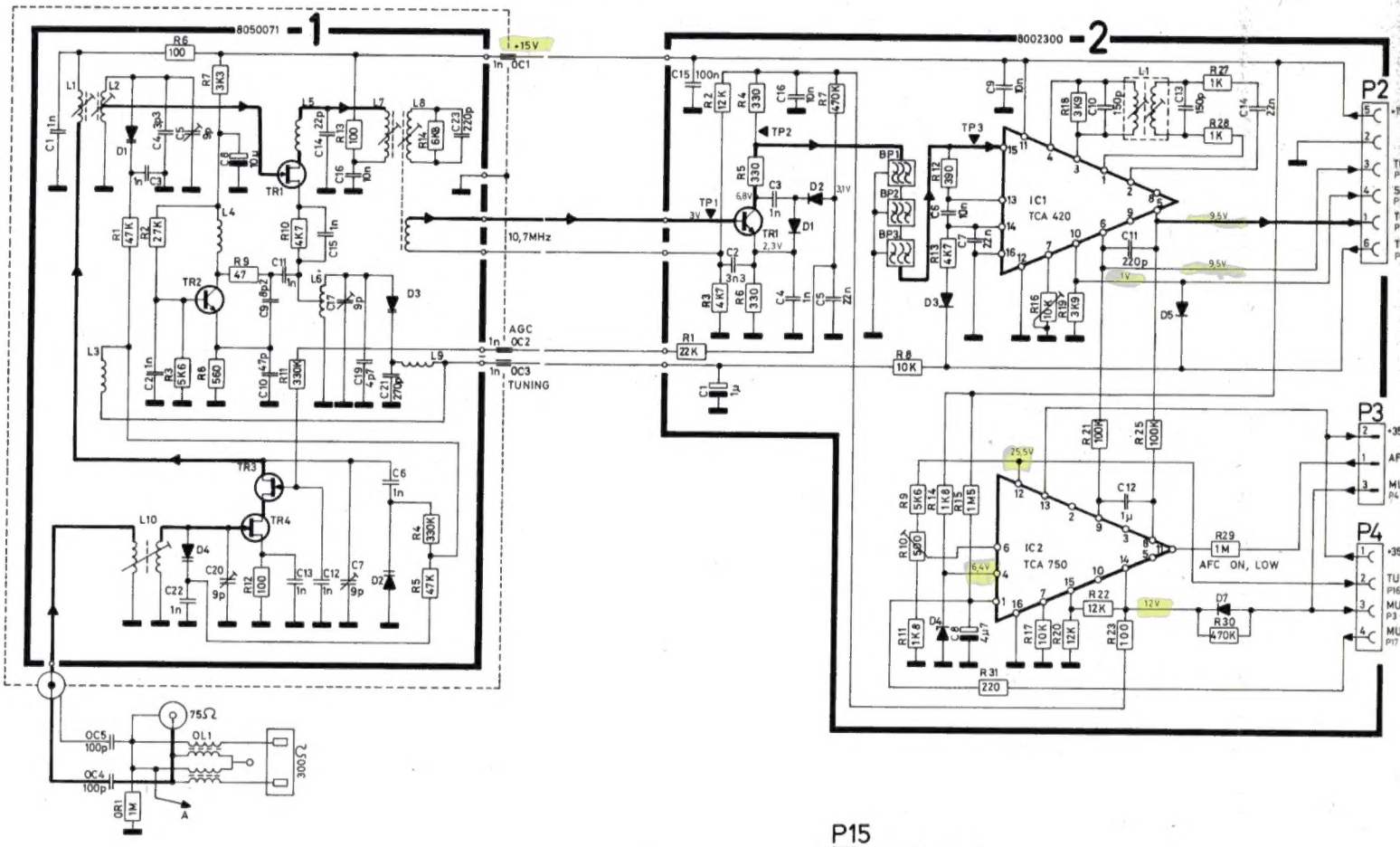
Steckerstifte auf der Bodenplatte.

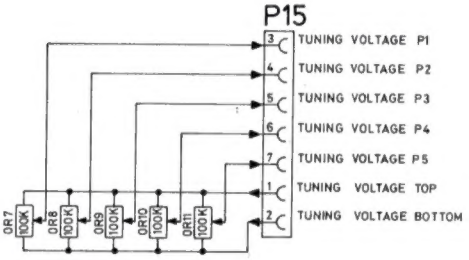
Sonstige Stecker- und Buchsenverbindungen, beispielsweise an Netztransformator und Anzeigelampen.

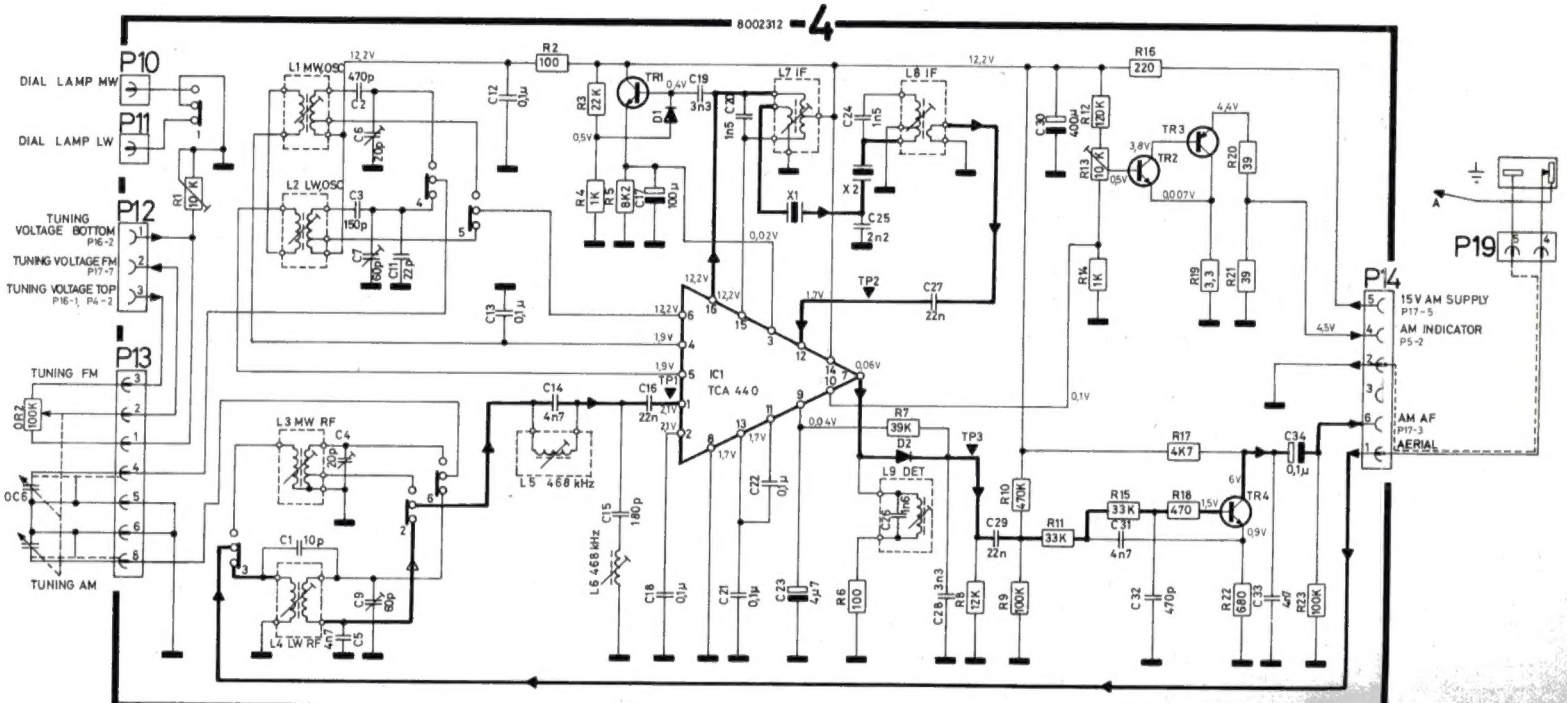


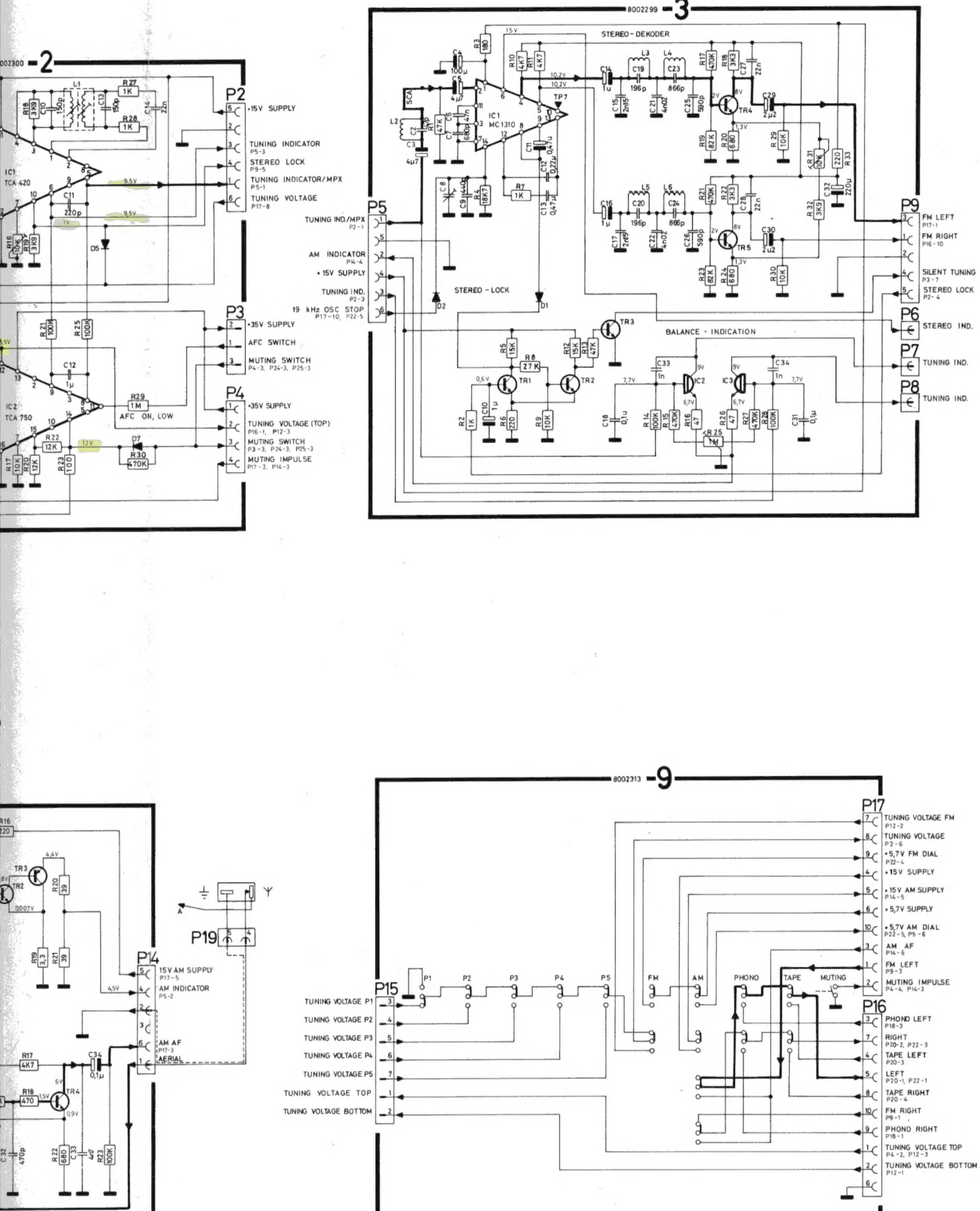
1-3

Diagram 1


8050071 -1
8002300 -2
+15V
OC1
OC2
OC3
AGC
TUNING
10,7MHz
IC1
TCA 420
IC2
TCA 750
P2
P3
P4
AFC ON, LOW
75Ω
300Ω
OL1
OC5
OC4

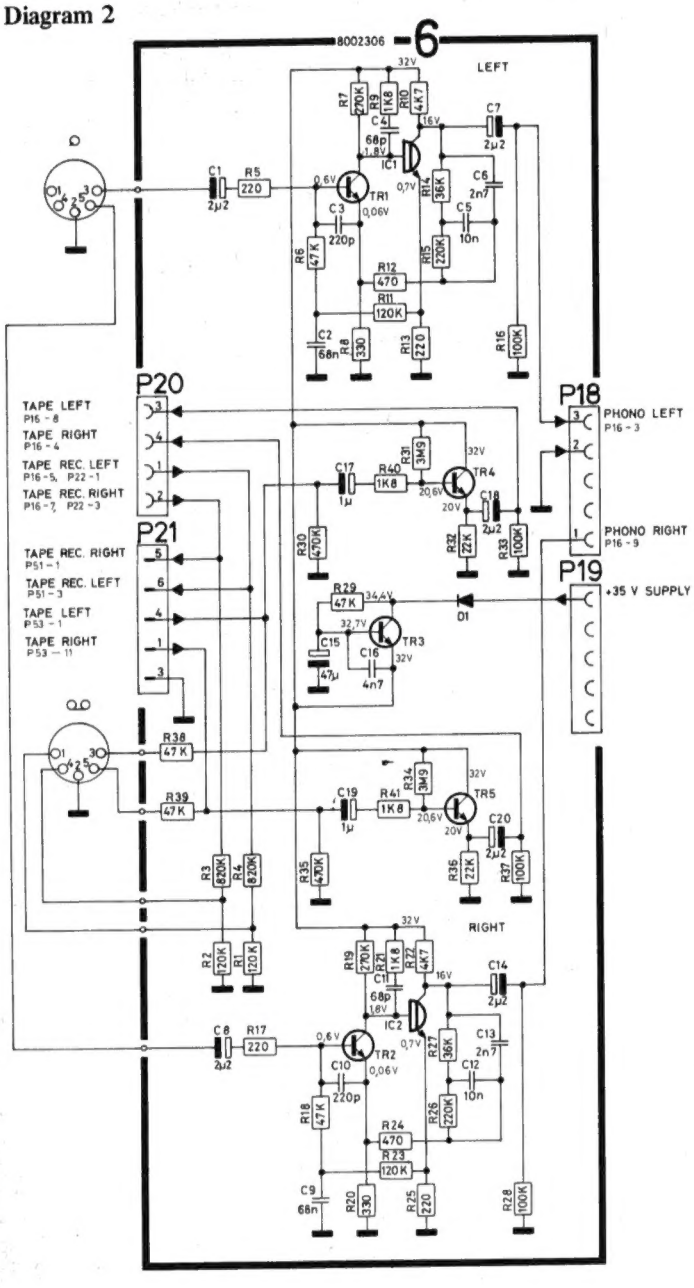

P15
TUNING VOLTAGE P1
TUNING VOLTAGE P2
TUNING VOLTAGE P3
TUNING VOLTAGE P4
TUNING VOLTAGE P5
TUNING VOLTAGE TOP
TUNING VOLTAGE BOTTOM

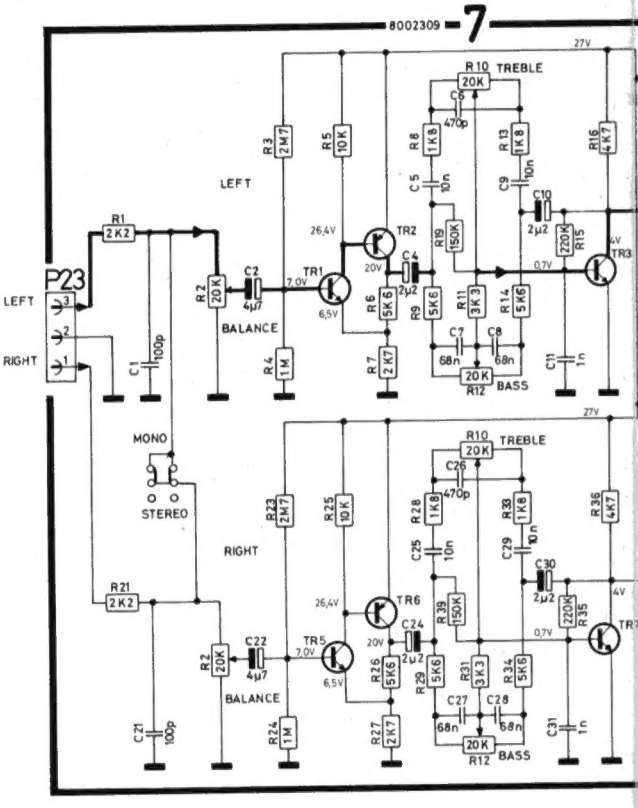

8002312 -4
P10
DIAL LAMP MW
P11
DIAL LAMP LW
P12
TUNING VOLTAGE BOTTOM P16-2
TUNING VOLTAGE FM P17-7
TUNING VOLTAGE TOP P16-1, P4-2
P13
TUNING FM
TUNING AM
L1 MW OSC
L2 LW OSC
L3 MW RF
L4 LW RF
L5 468 kHz
L6 468 kHz
L7 IF
L8 IF
L9 DET
IC1
TCA 440
P14
15V AM SUPPLY P17-5
AM INDICATOR P5-2
AM AF P17-3
AERIAL
P19


8002300 -2
P2
+15V SUPPLY
TUNING INDICATOR
P5-3
STEREO LOCK
P9-5
TUNING INDICATOR/MPX
P5-1
TUNING VOLTAGE
P17-8
IC1
TCA 420
P3
+35V SUPPLY
AFC SWITCH
MUTING SWITCH
P4-3, P24-3, P25-3
P4
+35V SUPPLY
TUNING VOLTAGE (TOP)
P16-1, P12-3
MUTING SWITCH
P3-3, P24-3, P25-3
MUTING IMPULSE
P17-2, P14-3
IC2
TCA 750
AFC ON, LOW
8002299 -3
STEREO-DEKODER
IC1
MC1310
TP7
P5
TUNING IND./MPX
P2-1
AM INDICATOR
P14-4
+15V SUPPLY
TUNING IND.
P2-3
19 kHz OSC STOP
P17-10, P22-5
STEREO-LOCK
D1
D2
BALANCE-INDICATION
TR1
TR2
TR3
TR4
TR5
IC2
IC3
P9
FM LEFT
P17-1
FM RIGHT
P16-10
SILENT TUNING
P3-7
STEREO LOCK
P2-4
P6
STEREO IND.
P7
TUNING IND.
P8
TUNING IND.
8002313 -9
P14
15V AM SUPPLY
P17-5
AM INDICATOR
P5-2
AM AF
P17-3
AERIAL
P19
P15
TUNING VOLTAGE P1
TUNING VOLTAGE P2
TUNING VOLTAGE P3
TUNING VOLTAGE P4
TUNING VOLTAGE P5
TUNING VOLTAGE TOP
TUNING VOLTAGE BOTTOM
P1
P2
P3
P4
P5
FM
AM
PHONO
TAPE
MUTING
P17
TUNING VOLTAGE FM
P12-2
TUNING VOLTAGE
P2-6
+5,7V FM DIAL
P22-4
+15V SUPPLY
+15V AM SUPPLY
P14-5
+5,7V SUPPLY
+5,7V AM DIAL
P22-5, P5-6
AM AF
P14-6
FM LEFT
P9-3
MUTING IMPULSE
P4-4, P14-3
P16
PHONO LEFT
P18-3
RIGHT
P20-2, P22-3
TAPE LEFT
P20-3
LEFT
P20-1, P22-1
TAPE RIGHT
P20-4
FM RIGHT
P9-1
PHONO RIGHT
P18-1
TUNING VOLTAGE TOP
P4-2, P12-3
TUNING VOLTAGE BOTTOM
P12-1

Bang&Olufsen

Diagram 2





OVERSIGT OVER STIKPLACERING

Nedenstående oversigtstegning viser stikker
cering på diagramsiderne.

SURVEY OF PLACEMENT OF PLUGS/SOCKE

Below is shown the placement of plugs and
in the diagrammes.

ÜBERSICHT ÜBER ANBRINGUNG VON STEC

Untenstehende Übersichtszeichnung zeigt
bringung der Stecker auf den Schaltbildern

Diagram 1

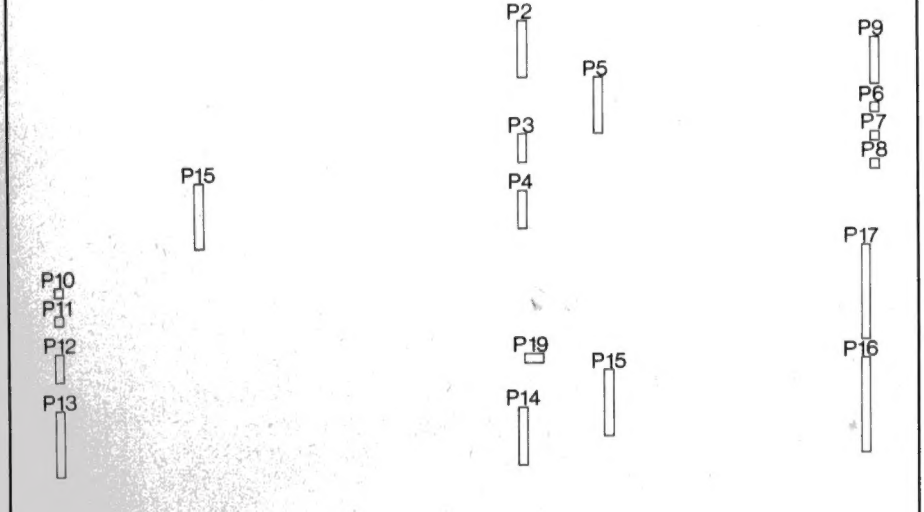
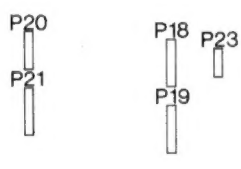
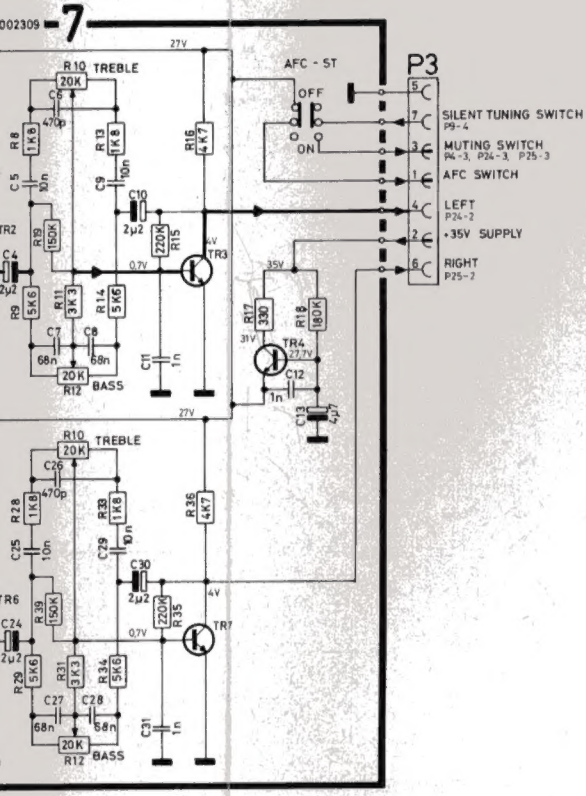
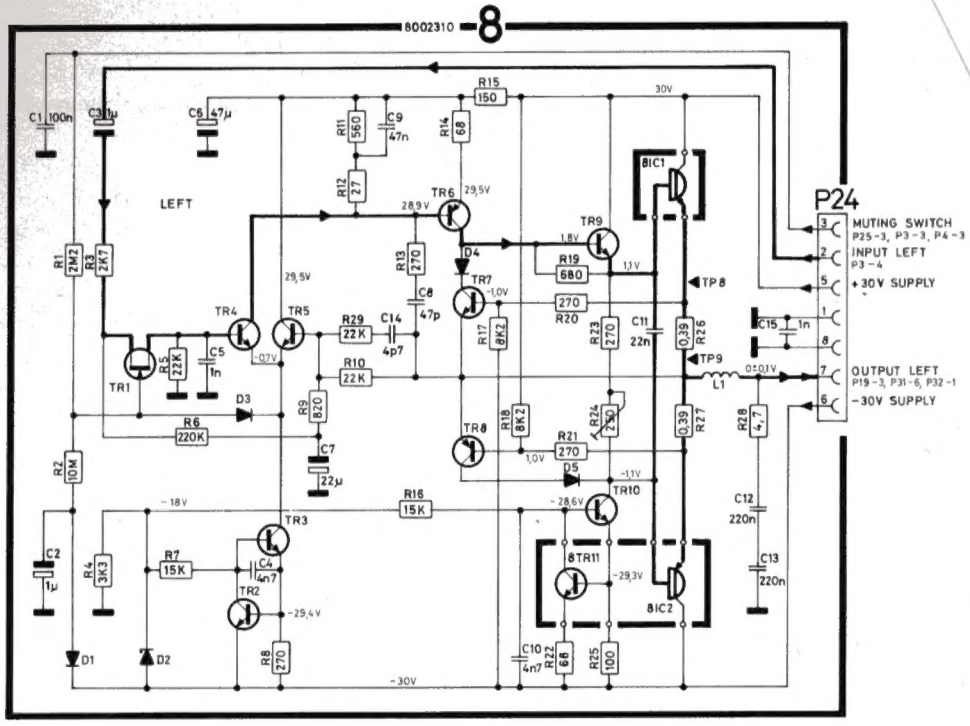


Diagram 2







KPLACERING

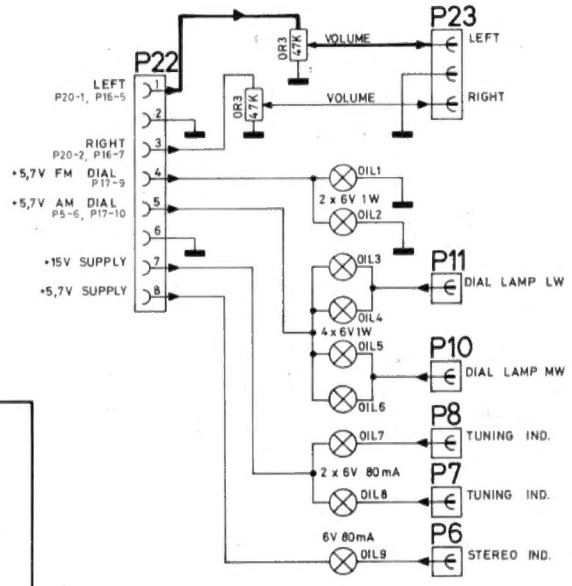
gtstegning viser stikkenes pla-
erne.

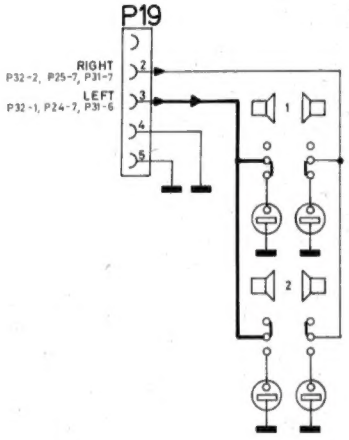
ENT OF PLUGS/SOCKETS

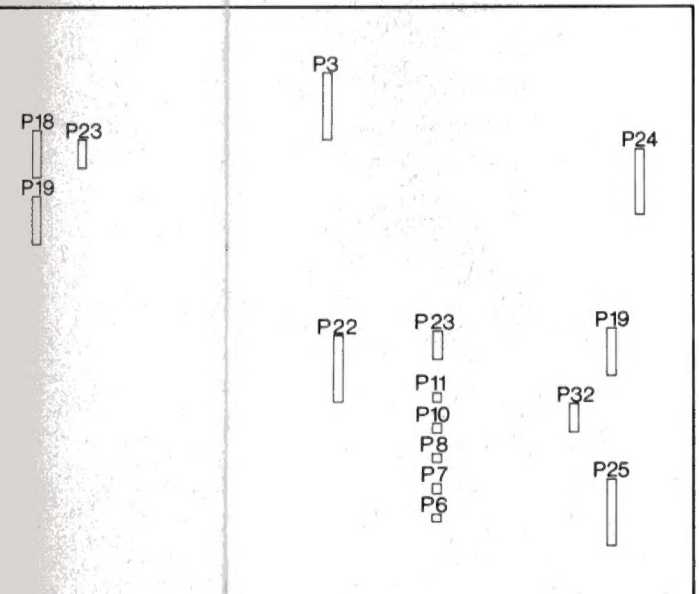
placement of plugs and sockets

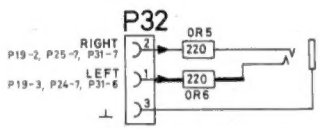
NBRINGUNG VON STECKERN

sichtszeichnung zeigt die An-
auf den Schaltbildern.









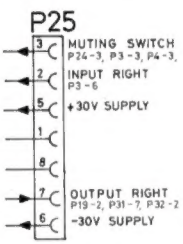
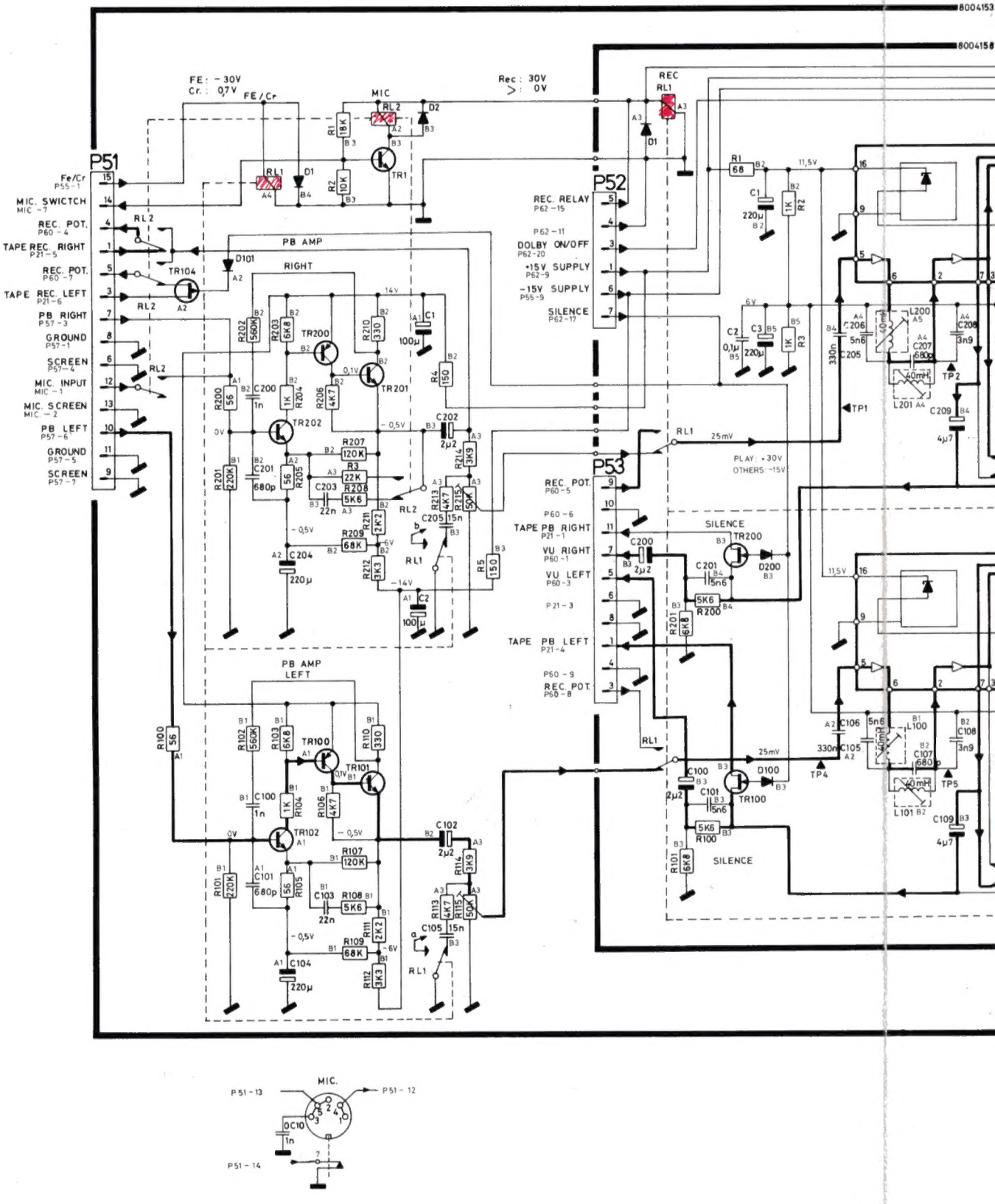
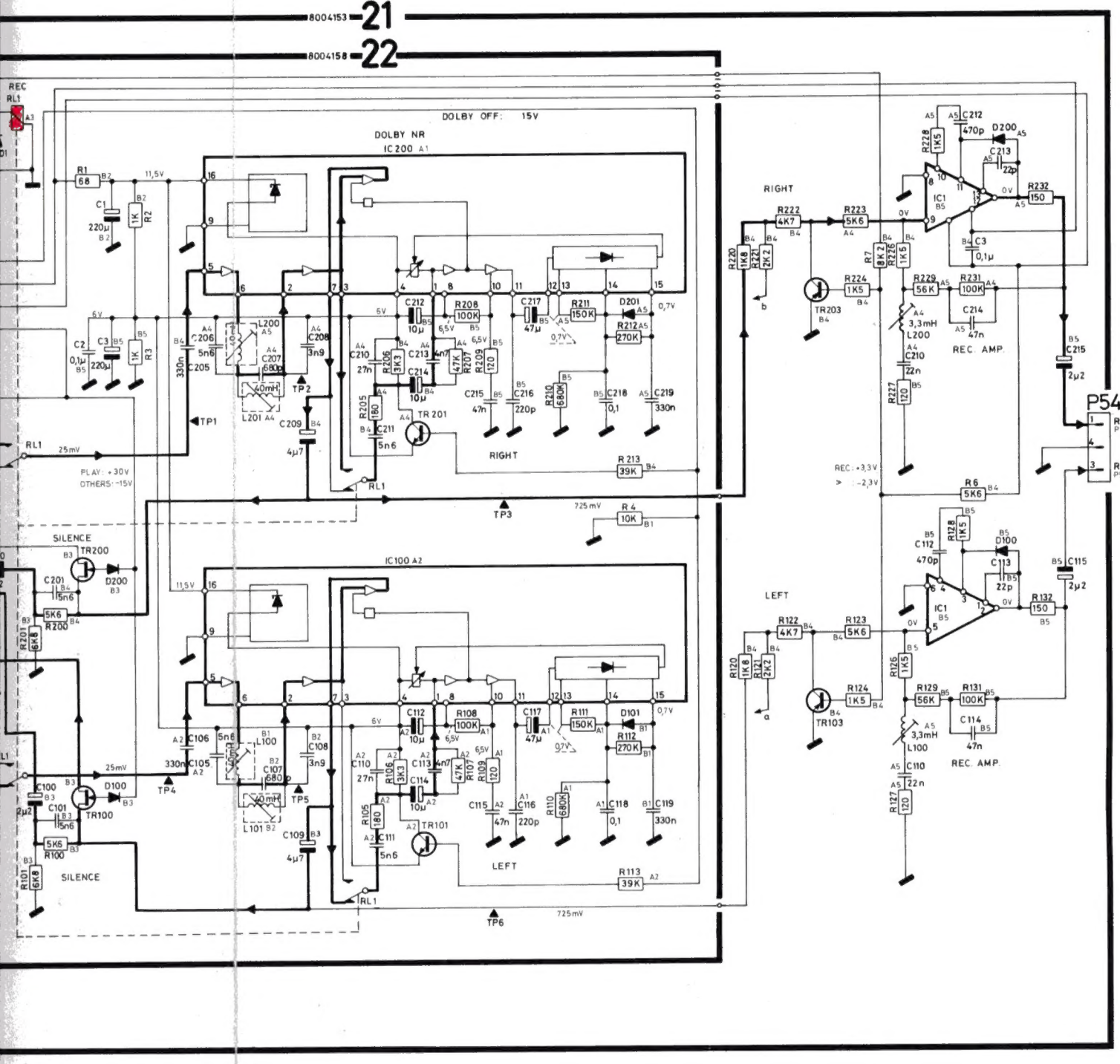


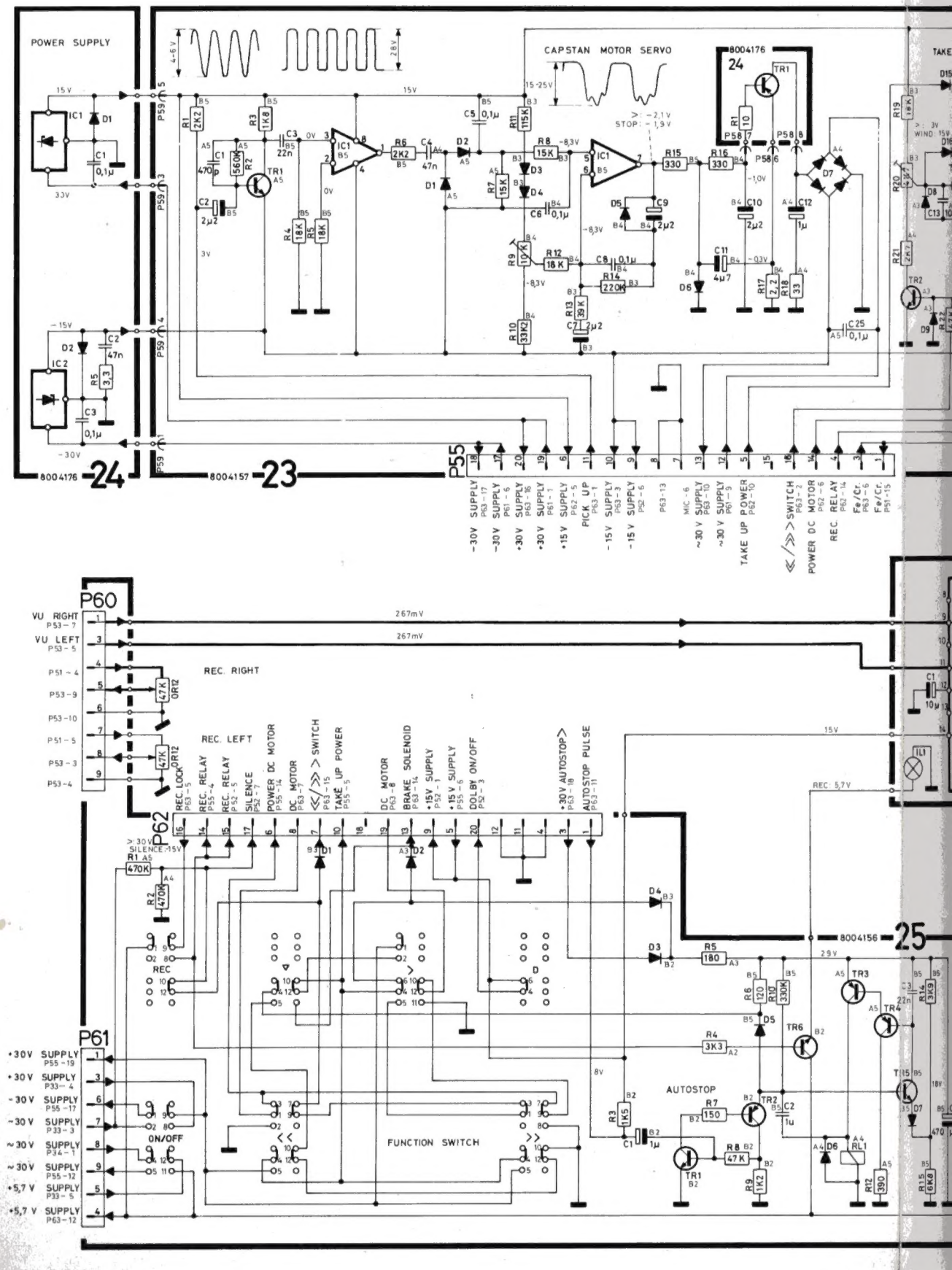
Diagram 3

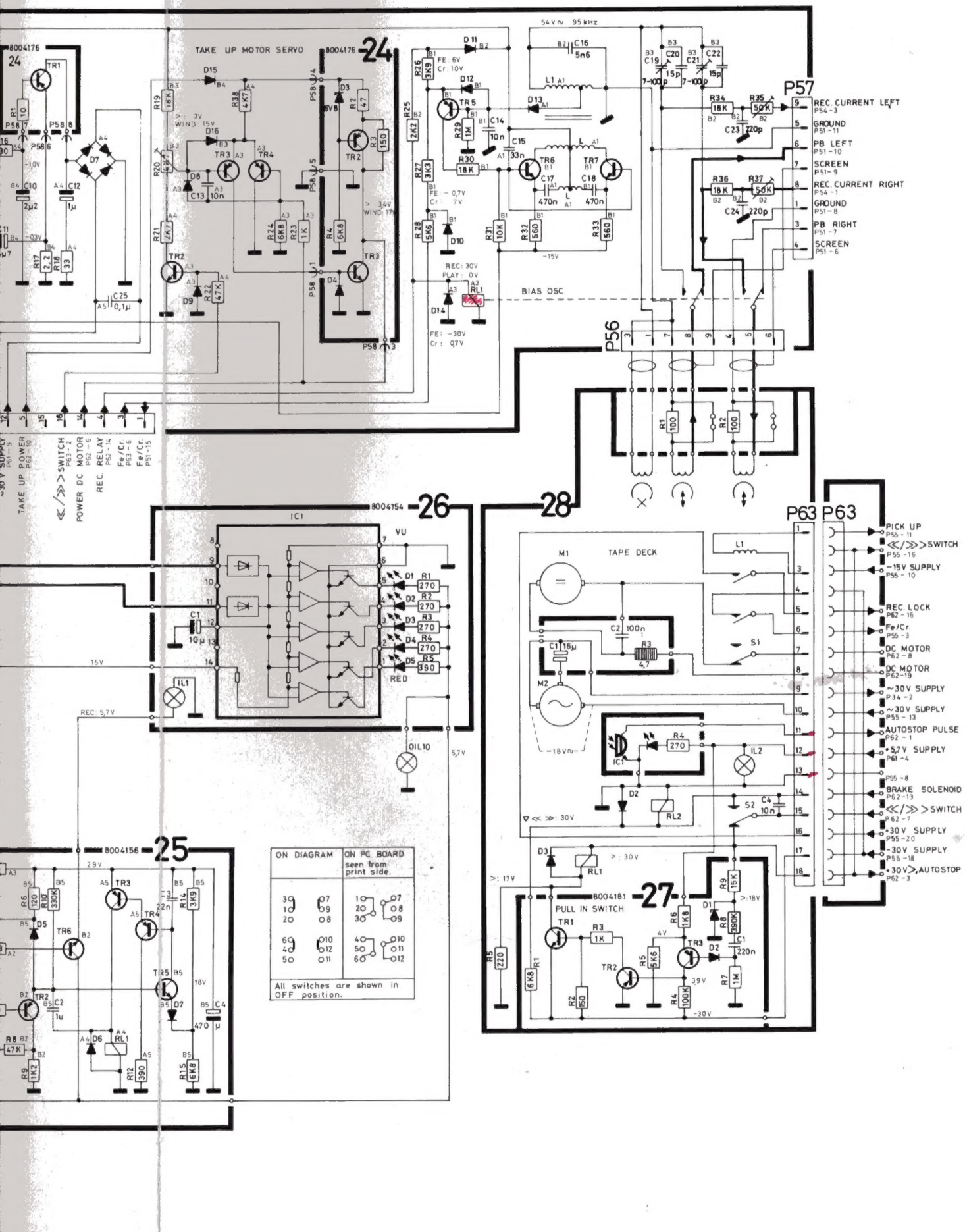

8004153
8004158
P51
P52
P53
REC
REC. RELAY
DOLBY ON/OFF
+15V SUPPLY
-15V SUPPLY
SILENCE
PB AMP
RIGHT
PB AMP LEFT
TAPE PB RIGHT
TAPE PB LEFT
VU RIGHT
VU LEFT
REC. POT.
MIC
MIC. SWICTCH
MIC. INPUT
MIC. SCREEN
PB RIGHT
PB LEFT
GROUND
SCREEN
TAPE REC. RIGHT
TAPE REC. LEFT
FE: -30V
Cr: 0,7V
FE/Cr
Rec: 30V
0V
PLAY: +30V
OTHERS: -15V
TR100
TR101
TR102
TR104
TR200
TR201
TR202
D100
D101
D200
RL1
RL2
TP1
TP2
TP4
TP5
L100
L101
L200
L201
MIC.
0C10


8004153 21
8004158 22
DOLBY OFF: 15V
DOLBY NR
IC200 A1
IC100 A2
RIGHT
LEFT
REC. AMP.
SILENCE
PLAY: +30V
OTHERS: -15V
REC: +3,3V
> -2,3V
P54
REC. CURRENT P57-8
REC. CURRENT P57-9
TP1
TP2
TP3
TP4
TP5
TP6
RL1
TR200
TR100
TR201
TR101
TR203
TR103
IC1
L200
L100
L201
L101
R1
R2
R3
R4
R6
R7
R100
R101
R200
R201
R205
R206
R207
R208
R209
R210
R211
R212
R213
R220
R221
R222
R223
R224
R226
R227
R228
R229
R231
R232
R100
R101
R120
R121
R122
R123
R124
R126
R127
R128
R129
R131
R132
C1
C2
C3
C100
C101
C105
C106
C107
C108
C109
C110
C111
C112
C113
C114
C115
C116
C117
C118
C119
C201
C205
C206
C207
C208
C209
C210
C211
C212
C213
C214
C215
C216
C217
C218
C219
C100
C101
C110
C112
C113
C114
C115
C116
C117
C118
C119
C214
C215
D100
D101
D200
D201
0,7V
725mV
25mV
11,5V
6V
6,5V
0V

Bang&Olufsen

DIAGRAM 4

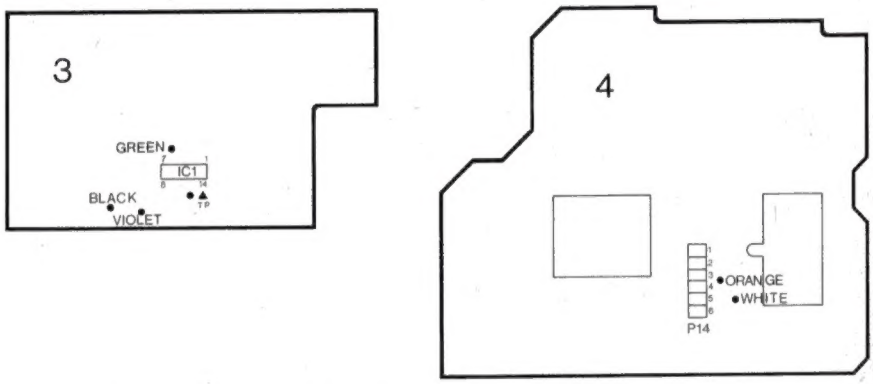



8004176 24
TAKE UP MOTOR SERVO
8004176 -24
P57
REC. CURRENT LEFT
GROUND
PB LEFT
SCREEN
REC. CURRENT RIGHT
GROUND
PB RIGHT
SCREEN
BIAS OSC
P56
TAKE UP POWER
POWER DC MOTOR
REC. RELAY
8004154 -26
IC1
VU
8004156 -25
28
TAPE DECK
M1
M2
P63
PICK UP
SWITCH
-15V SUPPLY
REC. LOCK
Fe/Cr.
DC MOTOR
DC MOTOR
~30V SUPPLY
~30V SUPPLY
AUTOSTOP PULSE
+5,7V SUPPLY
BRAKE SOLENOID
SWITCH
+30V SUPPLY
-30V SUPPLY
+30V>,AUTOSTOP
8004181 -27
PULL IN SWITCH
ON DIAGRAM
ON PC BOARD seen from print side.
All switches are shown in OFF position.

SERVICE TIPS

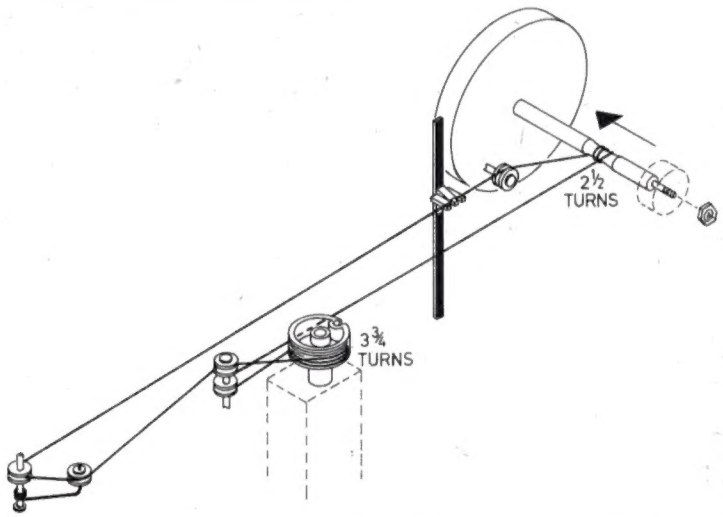
Dépannage circuits

Les circuits peuvent plus facilement être enlevés de la manière suivante:
Oter d'abord les vis. Tirer doucement dans les prises du cirduit à l'aide d'une pince pointue.



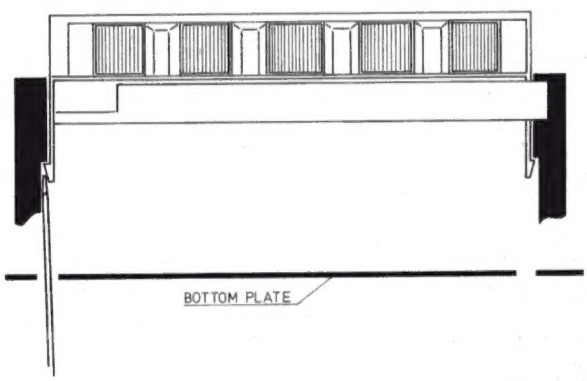
– Les différentes couleurs des fils libres sont indiquées sur le croquis.

Entraînement de l'index



La cordelette de l'index (n° de référence 3955016) doit être coupée sur une longueur de 95 cm. Nouer les extrémités, de sorte qu'une boucle de 44 cm apparaît. Pous placer les nœuds dans "l'œil" situé sur la poulie à cordelette. La cordelette doit étre montée comme il est indiqué sur le croquis.
REMARQUE: Le volant du cadran doit être démonté, pour pouvoir remplacer la cordelette.

Preset



Pour enlever le tiroir "preset", il faut mettre un tournevis dans les trous situés au fond de l'appareil sous le tiroir "Preset" puis basculer les glissières à l'extérieur des serrures.